

Abstract

Compensation Circuit and Compensation Method to Compensate Nonlinear Distortions of an A/D Converter

The invention relates to a compensation circuit (1-6) to compensate nonlinear distortions of an A/D converter (A/D: analog-to-digital) comprising a signal input and a compensation system.

In order to avoid the high costs related to the complex analog design of the A/D converter (1) and/or the high energy consumption in this converter and compensation system, it is proposed that a compensation circuit (2) be used that is composed of digital circuit elements that are connected following the A/D converter (1) and which has a nonlinearly distorted output signal of the A/D converter (1) supplied to it to compensate the nonlinear distortion. Adaptive coefficients are preferably employed here for the compensation.

Figure 1.